

WHAT IS CLAIMED IS:

1. A door lock for a door panel, said door lock comprising:
 - a lock housing adapted to be mounted on the door panel, and formed with a mounting hole that has a hole axis;
 - 5 a latch bolt adapted to be mounted on the door panel, and operable for movement between a latching position, where said latch bolt is extended relative to the door panel, and an unlatching position, where said latch bolt is retracted relative to the door panel;
 - 10 an operating spindle coupled to said latch bolt and rotatable between a first angular position, where said latch bolt is at the latching position, and a second angular position, where said latch bolt is at the unlatching position;
 - 15 a coupler mounted rotatably on said lock housing, and including a first coupling portion that extends into said lock housing through said mounting hole and that is coupled to said latch bolt, and a second coupling portion that is opposite to said first coupling portion and that
 - 20 is disposed externally of said lock housing, said coupler being capable of driving rotation of said operating spindle between the first and second angular positions;
 - a restoring mechanism for biasing said coupler to rotate said operating spindle from the second angular
 - 25 position to the first angular position, said restoring mechanism including a torsion spring mounted in said lock housing, and having a first spring end acting on

said lock housing, and a second spring end acted upon by said first coupling portion of said coupler;

a door handle including a handle sleeve that is sleeved fittingly and removably on said second coupling portion of said coupler, and a lever that extends outwardly and radially from said handle sleeve, said lever extending sidewardly when said operating spindle is at the first angular position, and being operable so as to rotate said door handle downwardly relative to said lock housing such that said coupler drives rotation of said operating spindle from the first angular position to the second angular position;

fastening means for fastening removably said handle sleeve of said door handle on said second coupling portion of said coupler; and

a tongue-and-groove arrangement including a set of angularly spaced apart grooves formed in an inner wall surface of said handle sleeve, and a radial tongue formed on an outer wall surface of said second coupling portion of said coupler to engage removably a selected one of said grooves when said handle sleeve is sleeved on said second coupling portion of said coupler.

2. The door lock as claimed in Claim 1, wherein said second coupling portion of said coupler has a circular cross-section,

said handle sleeve of said door handle including a base wall, and a surrounding wall extending from a periphery of said base wall,

said fastening means including a screw hole formed through said second coupling portion of said coupler, a threaded hole formed in said base wall of said handle sleeve of said door handle, and a screw fastener that
5 is inserted through said screw hole and that is threaded into said threaded hole.

3. The door lock as claimed in Claim 1, wherein said second coupling portion of said coupler has a frustoconical shape.

10 4. The door lock as claimed in Claim 1, wherein the set of angularly spaced apart grooves includes first and second grooves that are disposed on opposite sides with respect to the hole axis.

5. The door lock as claimed in Claim 4, wherein the hole
15 axis lies in a horizontal plane,

said first groove being disposed such that a first imaginary line radiating from the hole axis to said first groove forms a first angle with respect to the horizontal plane,

20 said second groove being disposed such that a second imaginary line radiating from the hole axis to said second groove forms a second angle with respect to the horizontal plane.

6. The door lock as claimed in Claim 5, wherein the second
25 angle is equal to the first angle.

7. The door lock as claimed in Claim 5, wherein each of the first and second angles ranges from 3 to 5 degrees.